

ABSTRACT

A rotary fluid machine includes a first rotation mechanism (2F) and a second rotation mechanism (2S). Each of them includes a cylinder (21) having a cylinder chamber (50) and an annular piston (22) which is contained in the cylinder chamber (50) and divides the cylinder chamber (50) into an outer working chamber (51) and an inner working chamber (52). The cylinder (21) goes around the piston (22). The first rotation mechanism (2F) and the second rotation mechanism (2S) are arranged to be adjacent to each other with a partition plate (2c) sandwiched therebetween. The cylinder (21) of the first rotation mechanism (2F) and the cylinder (21) of the second rotation mechanism (2S) are arranged such that one of the cylinders (21) is provided at one side of a partition plate (2c) and the other is provided at the other side of the partition plate (2c). Each of the first rotation mechanism (2F) and the second rotation mechanism (2S) is provided with a compliance mechanism (60) for reducing the gap that occurs between the cylinders (21) in the axial direction of the drive shaft (33).